

## **REMARKS**

Entry of the foregoing and reconsideration of the subject application are respectfully requested in light of the amendments above and the comments which follow.

Claims 1-3, 5, 7-20 and 25-32 are pending. By the present response, independent claims 1, 15, 25, and 29 have been amended. Upon entry of the present response, claims 1-2, 5, 7-20 and 25-38 remain pending and await further consideration on the merits.

Support for the foregoing amendments can be found, for example, in at least the following locations in the original disclosure: the original claims and the specification, page 16, lines 18-22, and page 20, lines 13-24.

### ***CLAIM REJECTIONS UNDER 35 U.S.C. §103***

Claims 1-3, 5-20 and 25-38 stand rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 6,763,643 to Martensson (hereinafter "*Martensson*") on the grounds set forth on pages 2-5 of the Official Action. For at least the reasons noted below, this rejection should be withdrawn.

#### **Claims 1-3, 5, 7-20, 26, and 33-34:**

The present claims are directed to floorboards which can be joined mechanically in different patterns so as to resemble traditional parquet flooring comprising blocks. In the prior art floorboards, floorboard pieces were made large with patterning (either laminate or other type) on the surface to simulate multiple small floorboards on a single physical floorboard, thus addressing issues of waste

and time for installation. However, as noted at page 9 of the application and FIG. 1C, floorboard pieces made with large patterning can produce unnatural appearance by, for example, lateral offset at joints.

The floorboards of claims 1-3, 5, 7-20, 26, and 33-34 address these and other improvements by providing a laminate floorboard of certain maximum dimensions. For example, in independent claim 1, a long edge of the floorboard has a length not exceeding 80 cm. and a short edge of the floorboard has a length not exceeding 10 cm.

The Official Action relies upon the disclosure in *Martensson* and states on page 2 that *Martensson* discloses the basic claim structure of the instant application but does not disclose specific long and short edge dimensions. The Examiner then asserts that the Applicant fails to show criticality for the specifically claimed dimensions, therefore it would have been an obvious design choice to use the dimensions such as specified in these claims.

These conclusions in the Official Action are respectfully traversed. Applicant has provided in the specification of the present application, and in the declarations submitted herewith, instances of criticality to the claimed dimensions, and that such benefits were surprising and unexpected. For example, in the prior art, laminate boards were made of a relatively large size for at least three reasons:

- (1) in order to reduce the saw cuts as much as possible (page 6, lines 26-27),
- (2) it was thought that the a floor of larger boards could be installed faster than a floor of smaller boards (page 7, lines 16-17), and
- (3) a floor comprising large sized panels with few joints has a considerable cost advantage over a floor with many smaller sized panels (page 7, lines 2-4).

However, with the large-sized patterned boards, there were problems that the printed patterns that simulate small blocks did not line up when the large boards were installed.

As a result of the development leading to the present invention, it has been surprisingly found that, in spite of the well-known advantages of the larger boards, there are actually many, previously unappreciated advantages of using a larger number of smaller boards. For example:

(1) the claimed small floorboards "provide an improved imitation of a classically patterned parquet flooring, since the joints will be consistent with the parquet blocks and not exhibit any pattern offsets or 'additional joints'." See, page 15, lines 15-18 of the present application.

(2) the inventor has also discovered the surprising result that "flooring which comprises small floorboards can be installed almost as quickly and with the same quality as traditional flooring comprising considerably larger floorboards." See, page 10, lines 21-26 of the present application.

(3) it has further been discovered that the small boards are easier to handle than the larger boards (page 11, line 1),

(4) because the sides are shorter in the smaller boards, there is less friction when sliding two adjacent connecting boards (page 11, line 2),

(5) since the actual connecting elements are proportionately smaller with the smaller boards, there is less material to bend when making a connection so that connecting two adjacent boards together is also easier (page 11, lines 3-5).

Thus, in spite of the industry accepted assumption that larger boards are better than smaller boards, the inventor determined that the numerous, and

previously unrecognized advantages of using smaller boards, can in many instances outweigh the advantages of using larger boards. Other advantages, not specifically set out in the present specification include the facts that:

(6) small boards are easier to install near walls than large boards,

(7) small boards are less inclined to warp in humid environments than the larger boards, and

(8) small boards have more joints per unit area and thus release tension easier due to expansion or shrinking easier than large boards.

In support of the foregoing assertions that the smaller boards produce unexpected results, and were contrary to the established thinking of the industry, applicant submits herewith a declaration from Mr. Gerhard Schultze, a retired employee of Pergo Corporation, who has been involved with laminate flooring from its beginning.

Mr. Schultze confirms that prior to the present invention, no one in the industry ever thought of producing floorboards of small size because of the perceived higher production costs and material waste. On the contrary, the general idea was to produce as large floorboards as logistics allowed. The laminate boards were produced in the same presses as the boards for parquet floorboards of wood (engineered wood). The presses produced boards of the size 8 x 4 feet and the laminate boards were sawn into floorboards of the size 1200 x 200 mm to enable stacking on a standard pallet. The 200 mm width of the floorboards is derived from the conventional width of three strips of floorboards. Mr. Schultze also confirms the benefits set forth above, and that the general thinking in the industry was that small

boards would be more time consuming to install because no one appreciated the foregoing advantages.

Also of interest is the declaration from Mr. Svante Bernow, who has conducted installation tests comparing the installation of the claimed small boards (8.4 cm X 7.56 cm) to the installation of standard size boards (20 cm X 120 cm). According to Mr. Bernow's tests, a 100 cm X 360 cm area could be installed in 3 minutes and 13 seconds using the small boards while the same area was installed in 3 minutes and 57 seconds using standard boards with an angle-snap installation, and in 5 minutes and 54 seconds using standard boards with a snap-snap installation. Accordingly, the aforementioned advantages of using a small board actually result in shortened installation time.

Accordingly, it is respectfully asserted, based on at least the above, that criticality for the specifically claimed dimensions has been established, thereby rebutting the Examiner's finding of obviousness. For at least this reason, withdrawal of the rejections of claims 1-3, 5, 7-20, 26, and 33-34 is respectfully requested.

**Claims 25, 26, and 35:**

Claim 25 defines a method for making a floor of mechanically locked rectangular laminated floorboards joined in parallel rows that includes placing a second floorboard in a second row at an angle to a first floorboard in a first row and contacting the same, by an upper joint edge, with a joint edge of the first floorboard, locking a new floorboard in the second row to a short side of the second floorboard in the second row, so that the upper joint edge of the new floorboard contacts the joint edge of the first floorboard, laterally displacing both the new and the second

floorboard parallel with respect to the long side of the first floorboard, the lateral displacement being longer than the length of the floorboards, and angling down the second and the new floorboard after lateral displacement.

This claimed method is illustrated in Figures 6 and 7 and page 22, line 8 through page 23, line 16, of the present application. These claims were rejected over Martensson. However, in the current rejection, the Examiner did not address, among other items, the feature underlined above, i.e., laterally displacing both the new and the second floorboard parallel with respect to the long side of the first floorboard and the lateral displacement is longer than the length of the floorboards. As set forth in the present specification, the claimed method provides the advantage that an entire row (such as row R2) can be laid without a floor layer having to move along the rows, and to automate laying. See page 23, lines 9-10 and 19-22.

In view of this deficiency of Martensson, applicant submits that the rejection of claims 25, 26, and 35 is improper and should be withdrawn.

Claim 27 defines a method for installing a flooring comprising a first and a second type of rectangular floorboards, each floorboard being provided, along opposing long edges and along opposing short edges, with integrated connectors for locking together the floorboard with a similar floorboard, whereby the long edges have a length which is an even multiple of a length of the short edges, and the first type of floorboard, as compared with the second type of floorboard, is mirror-inverted with regard to the connectors. The first and the second types of floorboard are also joinable to each other long side against short side, short side against short side and long side against long side. The method includes joining by inwards angling, two respective, essentially identical short edges of two floorboards of the first type with a

long edge of a floorboard of the second type. An embodiment of this invention is illustrated in Fig. 10, and described at page 26, lines 12-15 and 25-27, and page 27, lines 8-25. The resulting patterns can be seen in Figs. 12-16.

The rejection of claim 27 fails to mention several of the features of claim 27. Specifically, there is no discussion of:

(1) where or how Martensson teaches joining boards that are joinable to each other long side against short side;

(2) where the long edges have a length which is an even multiple of a length of the short edges; and

(3) the first type of floorboard, as compared with the second type of floorboard, is mirror-inverted with regard to the connectors.

Although the rejection alleges that Martensson shows inward angling in Fig. 8, it is clear that the Fig. 8 embodiment is not capable of inward angling.

Accordingly, Martensson fails to teach or suggest several important features of claim 27. Claims 28 and 36 depend from claim 27, and are thus also patentable over Martensson.

Claims 29 and 32, are similar to claim 27, although they define systems rather than a method. However, the floorboards of claims 29 and 32 also include the following features:

(1) boards that are joinable to each other long side against short side;

(2) the long edges have a length which is an even multiple of a length of the short edges; and

(3) the first type of floorboard, as compared with the second type of floorboard, is mirror-inverted with regard to the connectors.

Accordingly, claims 29 and 32, and dependent claims 30, 31, and 37-38 are also patentable over Martensson.

**CONCLUSION**

From the foregoing, further and favorable action in the form of a Notice of Allowance is earnestly solicited. Should the Examiner feel that any issues remain, it is requested that the undersigned be contacted so that any such issues may be adequately addressed and prosecution of the instant application expedited.

Respectfully submitted,

BUCHANAN INGERSOLL PC

Date: 2-16-06

By: William C. Rowland  
William C. Rowland  
Registration No. 30,888

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620